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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,036	02/05/2002	Ole Thastrup	3759-0120P	3012
2292	7590 09/13/2004		EXAMINER	
	EWART KOLASCH	SAKELARIS, SALLY A		
PO BOX 74' FALLS CHU	7 URCH, VA 22040-074	7	ART UNIT	PAPER NUMBER
-	,	1634		
			DATE MAILED: 09/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)			
Examiner Sally A Sakelaris 1634						
Sally A Sakelaris	Office Action Summary		THASTRUP ET AL.			
	Office Action Summary	Examiner	Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE £ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estemations of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled Estemations of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled Estemations of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled Estemation of time may be available under the mailing date of the provision of th						
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* See the attached detailed Office action for a list of the certified copies not received.						
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	Attachment(s)					
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

Art Unit: 1634

RESTRICTION

- 1. Restriction to one of the following inventions is required under 35 U.S.C. §121:
- I. Claims 1-31, 41 and 42 are drawn nucleic acid constructs coding for a fusion polypeptide to be selected from a variety of SEQ ID NOS: and protein types (further restriction requirement applies) and a medical composition and compound capable of modulating an intracellular pathway as classified in Class 514, subclass 44 and Class 536, subclass 23.4.
- II. Claims 32-38 are drawn to an apparatus for measuring the distribution of fluorescence as classified in Class 435, subclass 287.2.
- III. Claim 39 is drawn to a method of screening for substances that affect an intracellular signaling pathway as classified in Class 435 subclass 69.7
- IV. Claims 40 and 43 are drawn to a method of treating a condition or disease through the administration of a medicament as classified in Class 514, subclass 12.
- 2. Inventions I and II are patentably distinct in structure and physiochemical properties.

 Invention I is drawn to nucleic acid constructs coding for a fusion polypeptides whereas invention II is drawn to an apparatus. The nucleic acid of Group I are composed of nucleotides linked in phospodiester bonds and arranged in space as a double helix and encode polypeptides that are composed of amino acids linked in peptide bonds and arranged spatially in a number of different tertiary structures including alpha helices, beta-pleated sheets, and hydrophobic loops (transmembrane domain). Invention II is composed of a cell holder, optical scanning system, liquid addition system, and CCD camera. Because nucleic acids are composed of nucleotides that encode proteins composed of amino acids and the apparatus is composed of many

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mechanical systems, the inventions have different structural and functional properties.

Furthermore, the compositions are utilized in different methodologies, such that nucleic acids may be utilized in hybridization assays, while the apparatus may be utilized to collect a desired emitted fluorescence from a sample of interest. The apparatus of invention II does not require the particular products of the nucleic acids of group I since the apparatus of invention II can be used to analyze fluorescently linked antibodies in a immunology assay.

Inventions I and III and I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polynucleotides of invention I can be used in a materially different process such as for generating polypeptides.

Inventions II and III and II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different functions and are not disclosed as capable of use together because the apparatus of invention II is not required to practice the methods of inventions III and IV involving the treatment of patients with medicaments.

Inventions III and IV are drawn to patentably distinct methods that involve different method steps, include different reagents and have different objectives. Invention III involves a method of screening for substances that affect an intracellular signaling pathway identifying a binding partner of a polypeptide. The invention of Group IV is drawn to a method of treating a

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condition or disease through the administration of a medicament. The methods all have different method steps, objectives and reagents. Therefore the methods are distinct over one another.

Sequence Election Requirement Applicable to All Groups:

3. Each sequence coding for a fusion peptide is patentably distinct because they are unrelated sequences, i.e. these sequences are unrelated because the protein encoded by these sequences differs in structure and in function and in biological activity. A restriction is applied to each Group. For an elected Group drawn to a nucleotide sequence, the Applicants must elect a single nucleic acid sequence from SEQ ID NO: 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, or i.e. a single nucleic acid encoding a single fusion polypeptide(See MPEP 803.04).

Applicant is advised that examination will be restricted to only the elected SEQ ID NO. and should not to be construed as a species election.

The search of the selected sequence may include the complements of the selected sequences and, where appropriate, may include subsequences within the selected sequences (e.g., oligomeric probes and/or primers).

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. Similarly, proteins comprising unique amino acid sequences are structurally and functionally distinct. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121.

Absent evidence to the contrary, each such nucleotide sequences are presumed to represent an

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independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. **Process claims that depend from or otherwise include all the limitations of the patentable product** will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by the different classifications and their divergent subject matter and because these inventions require different searches that are not co-extensive, examination of these distinct inventions would pose a serious burden on the examiner and therefore restriction for examination purposes as indicated is proper.

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election of the invention to be examined even though the requirement be traversed (37 CFR

5. Applicant is advised that the reply to this requirement, to be complete, must include an

1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a petition under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sally A Sakelaris whose telephone number is 571-272-0748. The

examiner can normally be reached on M-Fri, 9-6:30 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sally Sakelaris

9/7/2004

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